**Material Datasheet 44**

<table>
<thead>
<tr>
<th>KE no.</th>
<th>MW18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>High Tenacity Polyester fabric</td>
</tr>
<tr>
<td>Construction</td>
<td>Heat-set, shrinkage- and porosity-stabilized</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (oz/yd²)</td>
<td>6.8</td>
</tr>
<tr>
<td>Thickness (mil.)</td>
<td>16</td>
</tr>
<tr>
<td>Tensile strength warp/weft (lb/in)</td>
<td>320 / 148 (±10%)</td>
</tr>
<tr>
<td>Resistance to tearing (lb)</td>
<td>45 / 36 (±10%)</td>
</tr>
<tr>
<td>Porosity (CFM/ft²)</td>
<td>18 at 0.5 inWG (±15%)</td>
</tr>
<tr>
<td>Filter class</td>
<td>G2 (*)</td>
</tr>
<tr>
<td>Shrinkage in wash (%)</td>
<td>&lt;0.5 (**)</td>
</tr>
<tr>
<td>Melting point (°F)</td>
<td>489</td>
</tr>
<tr>
<td>Spontaneous ignition temperature (°F)</td>
<td>946</td>
</tr>
<tr>
<td>Water absorption (in standard climate) (%)</td>
<td>0.4</td>
</tr>
<tr>
<td>Electrostatic resistance (Ohm/cm)</td>
<td>$2 \times 10^{10}$</td>
</tr>
<tr>
<td>Operating temperature max./min. (peak) (°F)</td>
<td>+140/-49 (peak: 176)</td>
</tr>
<tr>
<td>Resistance to aging</td>
<td>Excellent</td>
</tr>
<tr>
<td>Resistance to vibrations, motion</td>
<td>Excellent</td>
</tr>
<tr>
<td>Resistance to solvents</td>
<td>Excellent</td>
</tr>
<tr>
<td>Resistance to acids</td>
<td>Good</td>
</tr>
<tr>
<td>Resistance to bases</td>
<td>Medium</td>
</tr>
<tr>
<td>Resistance to oxidants, light, etc.</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

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Quality grades: Excellent - Good - Medium - Less good - Not recommended

*Recomm. KE measurement **Washed and dried according to KE Fibertec instructions

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**02/2020**